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FILING DATE ATTORNEY DOCKET NO. APPLICATION NO. FIRST NAMED INVENTOR CONFIRMATION NO. 10/538,060 06/09/2005 Kazuyoshi Hosaka 273581US0PCT 9218 03/30/2007 22850 7590 **EXAMINER** OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET NWAONICHA, CHUKWUMA O ALEXANDRIA, VA 22314 **ART UNIT** PAPER NUMBER 1621 SHORTENED STATUTORY PERIOD OF RESPONSE NOTIFICATION DATE **DELIVERY MODE** 3 MONTHS 03/30/2007 **ELECTRONIC** 

## Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/30/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)
Office Action Summary	10/538,060	HOSAKA ET AL.
	Examiner	Art Unit
	Chukwuma O. Nwaonicha	1621
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 28 December 2006.		
· <u> </u>	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1</u> is/are rejected.		
7)⊠ Claim(s) <u>2-20</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application
apor 140(3)/191811 Date	5)	

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#### **DETAILED ACTION**

1. This action is responsive to Applicants' communication of 28 December 2006.

2. Claims 1-20 are pending in the application.

3. The 102 rejections have been withdrawn following applicants' amendment.

## Claim Objection

The amendment (claims 18-20) filed 28 December 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the following words in claims 18-20 added new matters to the specification; in claim 18, line 1, the word "layer", in claim 19, line 1, the word "layer", in claim 20, line 2, the word "layer".

The word layer is not in the specification. Correction is required.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by Wu et al., {US 2002/0165275 same as US 6,656,971}.

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Wu et al. disclose applicants claimed compound as shown below. See compound in column 56.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al., {US 2002/0165275 same as US 6,656,971}.

Applicants claim a diaminobenzene derivative of the general formula 1; wherein all the variables are as defined in the claims.

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$$H_2N$$
 $H_2C$ 
 $O$ 
 $X_1$ 
 $X_2$ 
 $X_3$ 
 $X_3$ 

formula 1

## Determination of the scope and content of the prior art (M.P.E.P. §2141.01)

Wu et al. teach diaminobenzene derivative of the general formula 2, see column 56.

formula 2

# Ascertainment of the difference between the prior art and the claims (M.P.E.P.. §2141.02)

Wu et al. diaminobenzene derivative differs from the instantly claimed diaminobenzene derivative in that the diaminobenzene derivative of formula 2 is a derivative of the instantly claimed compound of the general formula 1. Specifically, applicants claimed diaminobenzene derivative of the general formula 1 reads on diaminobenzene derivative of Wu et al. when the variables n is 0, and the substituent on the monocyclic group is a fluorine atom, chlorine atom or bromine atom.

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Finding of prima facie obviousness--rational and motivation (M.P.E.P.. §2142-2143)

The instantly claimed diaminobenzene derivative would have been suggested to one of ordinary skill because one of ordinary skill wishing to obtain polyimide precursor or a polyimide is taught to select the diaminobenzene derivative from the genus of Wu et al.

One of ordinary skill in the art would have a reasonable expectation of success in practicing the instant invention by varying the substituents (a fluorine atom, chlorine atom or bromine atom) on monocyclic group to arrive at the instantly claimed diaminobenzene derivative. Said person would have been motivated to practice the teaching of the reference cited because it demonstrates that diaminobenzene derivatives are useful in organic reactions. The instantly claimed invention would therefore have been obvious to one of ordinary skill in the art.

#### Allowable Subject Matter

Claims 2-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is 571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am to 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chukwuma O. Nwaonicha, Ph.D.

Patent Examiner Art Unit: 1621

THURMAN K. PAGE
SUPERVISORY PATENT EXAMINER

Thurman Page, Supervisory Patent Examiner, Technology Center 1600